

**1998**

**ELEMENTARY**

**MATHEMATICS**

**SCORING GUIDE**

**SESSION 2**

Session:	Z
Item:	1
Page:	18–20
Content Standard(s):	2 Geometric/Spatial Sense and Measurement
Process Standard(s):	1.4 and 4.1

**Score Points:**

4 points	<p>The student's response fully addresses the performance event.</p> <p>The response:</p> <ul style="list-style-type: none"><li>• demonstrates knowledge of the mathematical concepts and principles needed to complete the event.</li><li>• communicates all process components that lead to an appropriate and systematic solution.</li><li>• may have only minor flaws with no effect on the reasonableness of the solution.</li></ul>
3 points	<p>The student's response substantially addresses the performance event.</p> <p>The response:</p> <ul style="list-style-type: none"><li>• demonstrates knowledge of the mathematical concepts and principles needed to complete the event.</li><li>• communicates most process components that lead to an appropriate and systematic solution.</li><li>• may have only minor flaws with minimal effect on the reasonableness of the solution.</li></ul>
2 points	<p>The student's response partially addresses the performance event.</p> <p>The response:</p> <ul style="list-style-type: none"><li>• demonstrates a limited knowledge of the mathematical concepts and principles needed to complete the event.</li><li>• communicates some process components that lead to an appropriate and systematic solution.</li><li>• may have flaws or extraneous information that indicates some lack of understanding or confusion.</li></ul>

**Session:** Z  
**Item:** 1  
**Page:** 18–20  
**Content Standard(s):** 2 Geometric/Spatial Sense and Measurement  
**Process Standard(s):** 1.4 and 4.1

1 point                      The student's response minimally addresses the performance event.

The response:

- demonstrates a limited knowledge of the mathematical concepts and principles needed to complete the event.
- communicates few or no process components that lead to an appropriate and systematic solution.
- may have flaws or extraneous information that indicates lack of understanding or confusion.

0 points                      Other—Responses not addressed by the Condition Codes:

Examples of "0":

Work consists of copying the prompt information only.  
Work indicates no mathematical understanding of the task.

Session: Z  
Item: I  
Page: 18–20  
Content Standard(s): 2 Geometric/Spatial Sense and Measurement  
Process Standard(s): 1.4 and 4.1

**Sample Solution:**

Design using at least three different pattern block shapes drawn on the bookmark in a symmetrical design.

Line of symmetry drawn correctly.

Explanation of symmetry equivalent to the following:

If you fold the bookmark on the line of symmetry, the sides match exactly.

**Scoring Comments:**

Although the line of symmetry may not be exactly in the center of a bookmark, this is acceptable for 4th grade.

Design of three shapes should appear to be symmetrical.

Extra artistic design or use of words on bookmark does not affect symmetrical design.

A circle is an acceptable shape.

Session: Z  
Item: Z  
Page: 21  
Content Standard(s): 1 Number Sense  
Process Standard(s): 3.3

**Exemplary Response:**

- $.25 \square .25 \square .25 \square .25 + .25 \square .10 \square \bullet \square \square .05 \square .05 \square .05 \square .05 \square .01 \square .01 \square .01 \square .01 + .01$

OR

$$1.25 + .20 + .20 + .05$$

OR

Other valid process

AND

- \$1.70 or 170¢ or 1.70

**Score Points:**

2 points	Exemplary Response
1 point	One component
0 points	Other

**Scoring Comments:**

1 point credit given for coins drawn with values shown.

Student must use decimal point or ¢ sign in final answer.

Session: 2  
Item: 3  
Page: 22  
Content Standard(s): 2 Geometric/Spatial Sense and Measurement  
Process Standard(s): 1.4

**Exemplary Response:**

- 10 (cm)

**Score Points:**

1 point	Exemplary Response
0 points	Other

Session: 2

Item: 4

Page: 23

Content Standard(s): 3 Data Analysis, Probability, and Statistics

Process Standard(s): 3.5

**Exemplary Response:**

- $\frac{3}{11}$  or 3 out of 11

OR

Other equivalent probability

**ScorePoints :**

1 point Exemplary Response

0 points Other

Session: 7  
Item: 5  
Page: 24  
Content Standard(s): 2 Geometric/Spatial Sense and Measurement  
Process Standard(s): 4.1

**Exemplary Response:**

- 72 (°F)

AND

- Explanation equivalent to the following:

(No, because) 72°F is less than 75°F (so the temperature is too low)

OR

Other valid explanation

Note: **No** or **not safe** is not necessary if comparison is given. Credit is not given for **No** or **not safe** only.

**Score Points:**

2 points	Exemplary Response
1 point	One component
0 points	Other



Session: Z

Item: 6

Page: 25

Content Standard(s): 3 Data Analysis, Probability, and Statistics

Process Standard(s): 3.1

### Exemplary Response:

Accept any mathematics story problem that

- uses correct information taken from the tally chart

AND

• asks a question

AND

- correctly solves the story problem

### Score Points:

3 points Exemplary Response (three components)

2 points Two components

1 point One component

0 points Other

### Scoring Comments:

Credit for 3 points must include a statement in words that includes a setup for the question and a question with the correct answer to it.

Credit for 1 point given for solutions such as "Miss Rumphius won," "Hattie & the Wild Waves got the least," or any solution that takes into account all information from the tally chart.

Session: 2

Item: 7

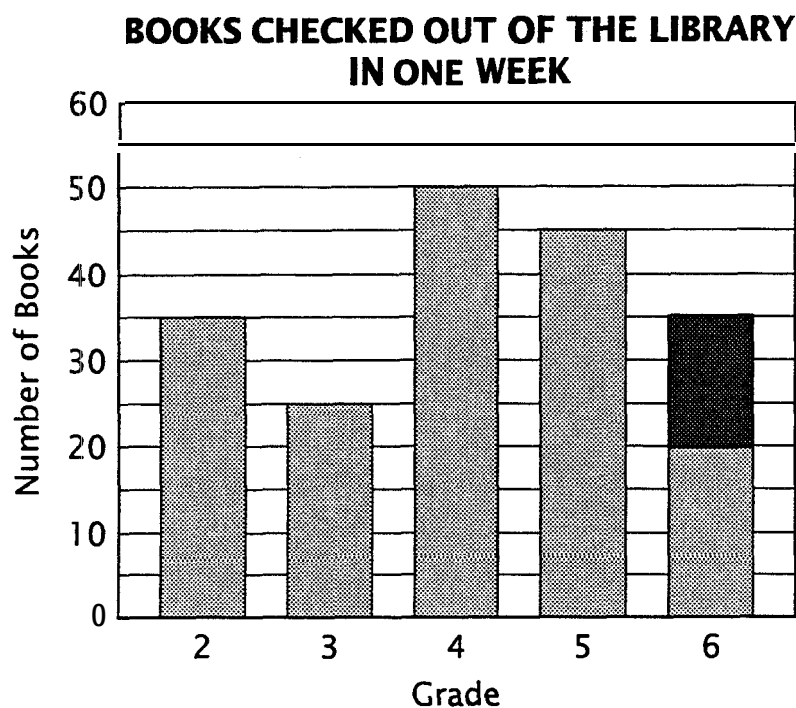
Page: 26

Content Standard(s): 3 Data Analysis, Probability, and Statistics

Process Standard(s): 1.8

**Exemplary Response:**

- Bar drawn to show 35 books for Grade 6



AND

- 35 (books)

Session: 2  
Item: 7  
Page: 26  
Content Standard(s): 3 Data Analysis, Probability, and Statistics  
Process Standard(s): 1.8

**Score Points:**

2 points	Exemplary Response (two components)
1 point	One component
	OR
	Bar is drawn to reflect the number of books in answer (other than 35)
0 points	Other

**Session:** 2

**Item:** 8

**Page:** 26

**Content Standard(s):** 3 Data Analysis, Probability, and Statistics

**Process Standard(s):** 1.6

**Exemplary Response:**

- 20 (books)

**Score Points:**

1 point Exemplary Response

0 points Other

Session: Z  
Item: 9  
Page: 27  
Content Standard(s): 4 Patterns and Relationships  
Process Standard(s): 1.10

**Exemplary Response:**

- 7

AND

- Work or explanation equivalent to the following:

Number of Pages	Number of Stars
8	1
16	2
24	3
32	4
40	5
48	6
56	7

OR

$$56 \div 8$$

OR

Other valid response

**Score Points:**

2 points	Exemplary Response
1 point	One component
0 points	Other

Session: 2

Item: 9

Page: 27

Content Standard(s): 4 Patterns and Relationships

Process Standard(s): 1.10

**Scoring Comments:**

Credit is given for " $8 + 8 + 8 + 8 + 8 + 8 + 8$ ."